

In the Claims

Please cancel claims 11-47 without prejudice.

The following listing of claims replaces all prior listing of claims.

Please amend claim 1 as follows:

1. (Currently Amended) A method of deconjugating in proximity to a metal ion a modifier protein from a target protein, wherein the modifier protein is conjugated to the target protein via a peptide bond between the carboxy terminus of the modifier protein and a free amino group of the target protein, the method comprising contacting the ~~target protein to peptide bond with~~ a polypeptide comprising a metalloprotease characterized as a JAB subunit, thereby deconjugating the modifier protein from the target protein.
2. (Original) The method of claim 1, wherein the target protein is a cullin protein.
3. (Original) The method of claim 2, wherein the target protein is Cul1, Cul2, Cul3, Cul4A, Cul4B, or Cul5.
4. (Original) The method of claim 1, wherein the target protein has ubiquitin ligase activity.
5. (Original) The method of claim 1, wherein the target protein is part of a protein complex having ubiquitin ligase activity.
6. (Original) The method of claim 1, wherein the modifier protein is NEDD8, UBL1, SMT3H2, SMT3H1, APG12, FAT10, Fau, UCRP, URM1, or UBL5.
7. (Original) The method of claim 1, wherein the polypeptide is a polypeptide complex of COP9/signalsome.

In re Application of
Lyapina et al.
Application No.: 10/046,961
Filed: January 14, 2002
Page 5

PATENT
Attorney Docket No.: CIT1510-3

8. (Original) The method of claim 1, wherein the polypeptide is AMSH, AMSH1,

or AMSH2.

9. (Original) The method of claim 1, wherein the target protein is exposed to the

polypeptide *in vitro*.

10. (Original) The method of claim 1, wherein the target protein is exposed to the

polypeptide *in vivo*.

Claims 11-47 (Cancelled)